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Feature Activity 01 Documentation

STEPS 1-3

```
Command Prompt

C:\Users\Deanii\Documents\GitHub\ME8_Containerization_and_Docker\1-running_containers>docker images
REPOSITORY    TAG        IMAGE ID      CREATED      SIZE

C:\Users\Deanii\Documents\GitHub\ME8_Containerization_and_Docker\1-running_containers>docker pull ubuntu:16.04
16.04: Pulling from library/ubuntu
80bce60046fa: Pull complete
55a738a15540: Pull complete
e19cf0706c62: Pull complete
de4cdd6c27d1: Pull complete
Digest: sha256:9775877f420d453ef790e6832d77630a49b32a92b7bedf330adf4d8669f6600e
Status: Downloaded newer image for ubuntu:16.04
docker.io/library/ubuntu:16.04

C:\Users\Deanii\Documents\GitHub\ME8_Containerization_and_Docker\1-running_containers>docker pull ubuntu:16.10
16.10: Pulling from library/ubuntu
dca7be20e546: Pull complete
40bca54f5968: Pull complete
61464f23390e: Pull complete
d99f0bcd5dc8: Pull complete
120db6f90955: Pull complete
Digest: sha256:8dc9652808dc091400d7d5983949043a9f9c7132b15c14814275d25f94bca18a
Status: Downloaded newer image for ubuntu:16.10
docker.io/library/ubuntu:16.10

C:\Users\Deanii\Documents\GitHub\ME8_Containerization_and_Docker\1-running_containers>docker images
REPOSITORY    TAG        IMAGE ID      CREATED      SIZE
ubuntu        16.04     9ff95a467e45  3 weeks ago  135MB
ubuntu        16.10     7d3f705d307c  3 years ago  107MB
```

STEP 4

```
Command Prompt

C:\Users\Deanii\Documents\GitHub\ME8_Containerization_and_Docker\1-running_containers>docker rmi 7d3f705d307c
Untagged: ubuntu:16.10
Untagged: ubuntu@sha256:8dc9652808dc091400d7d5983949043a9f9c7132b15c14814275d25f94bca18a
Deleted: sha256:7d3f705d307c7c225398e04d4c4f8512f64eb8a65959a1fb4514dfde18a047e7
Deleted: sha256:d9db289b9342d9617596cd6ee3bba988629e24d9afa5db4e4b0e4e491c65007d
Deleted: sha256:a87725e8597b97f2399bc3aa50b0e2eac903b8ce19055668d3befb012918205c
Deleted: sha256:38cf10a2801529348366953e9b933d3524360dedc91d3e4d5d7f941da0c973c9
Deleted: sha256:61172966249d43026dbd017eec3a9575e37bddf8a269a9f09ecb559d7bfe7fef
Deleted: sha256:57145c01eb80040fdd0a24cde20af4788605b49593188d4f7efab099af89a08e

C:\Users\Deanii\Documents\GitHub\ME8_Containerization_and_Docker\1-running_containers>docker images
REPOSITORY    TAG        IMAGE ID      CREATED      SIZE
ubuntu        16.04     9ff95a467e45  3 weeks ago  135MB

C:\Users\Deanii\Documents\GitHub\ME8_Containerization_and_Docker\1-running_containers>
```

Running our container (1-3)

```
Command Prompt

C:\Users\Deanii\Documents\GitHub\ME8_Containerization_and_Docker\1-running_containers>docker run ubuntu:16.04 /bin/echo 'Hello world!'
'Hello world!'

C:\Users\Deanii\Documents\GitHub\ME8_Containerization_and_Docker\1-running_containers>docker ps
CONTAINER ID   IMAGE      COMMAND                  CREATED        STATUS        PORTS        NAMES
8fae4adec725   ubuntu:16.04  "/bin/echo 'Hello wo..." About a minute ago   Exited (0)    About a minute ago        heuristic_aryabhata

C:\Users\Deanii\Documents\GitHub\ME8_Containerization_and_Docker\1-running_containers>docker run ubuntu:16.04 /bin/bash

C:\Users\Deanii\Documents\GitHub\ME8_Containerization_and_Docker\1-running_containers>docker ps -a
CONTAINER ID   IMAGE      COMMAND                  CREATED        STATUS        PORTS        NAMES
374fdc31a5df   ubuntu:16.04  "/bin/bash"             10 seconds ago   Exited (0)    9 seconds ago        musing_pascal
8fae4adec725   ubuntu:16.04  "/bin/echo 'Hello wo..." 2 minutes ago     Exited (0)    2 minutes ago        heuristic_aryabhata

C:\Users\Deanii\Documents\GitHub\ME8_Containerization_and_Docker\1-running_containers>docker run -it ubuntu:16.04 /bin/bash
root@e79c10c356a9:/# pwd
/
root@e79c10c356a9:/# ls
bin boot dev etc home lib lib64 media mnt opt proc root run sbin srv sys tmp usr var
root@e79c10c356a9:/# exit
exit
```

Running our container (4)

```
Command Prompt

C:\Users\Deanii\Documents\GitHub\ME8_Containerization_and_Docker\1-running_containers>docker run -d ubuntu:16.04 /bin/sleep 3600
cbe5c38fa31cad5d6b83e666c47d229c09a34b50af037f0f61b3b5881154ac6f

C:\Users\Deanii\Documents\GitHub\ME8_Containerization_and_Docker\1-running_containers>docker ps
CONTAINER ID   IMAGE      COMMAND                  CREATED        STATUS        PORTS        NAMES
cbe5c38fa31c   ubuntu:16.04  "/bin/sleep 3600"       13 seconds ago   Up 11 seconds        nifty_jang
```

Running our container (5-6)

```
Command Prompt

C:\Users\Deanii\Documents\GitHub\ME8_Containerization_and_Docker\1-running_containers>docker exec -it cbe /bin/bash
root@cbe5c38fa31c:/# ps aux
USER      PID %CPU %MEM    VSZ   RSS TTY      STAT START   TIME COMMAND
root         1   0.0  0.0   4372   676 ?        Ss   12:04   0:00 /bin/sleep 3600
root         8   0.1  0.0  18236  3296 pts/0    Ss   12:06   0:00 /bin/bash
root        19   0.0  0.0   34420  2852 pts/0    R+   12:06   0:00 ps aux
root@cbe5c38fa31c:/# exit
exit

C:\Users\Deanii\Documents\GitHub\ME8_Containerization_and_Docker\1-running_containers>docker ps
CONTAINER ID   IMAGE      COMMAND                  CREATED        STATUS        PORTS        NAMES
cbe5c38fa31c   ubuntu:16.04  "/bin/sleep 3600"       2 minutes ago   Up 2 minutes        nifty_jang

C:\Users\Deanii\Documents\GitHub\ME8_Containerization_and_Docker\1-running_containers>docker stop cbe
cbe

C:\Users\Deanii\Documents\GitHub\ME8_Containerization_and_Docker\1-running_containers>docker ps -a
CONTAINER ID   IMAGE      COMMAND                  CREATED        STATUS        PORTS        NAMES
cbe5c38fa31c   ubuntu:16.04  "/bin/sleep 3600"       3 minutes ago   Exited (137)  6 seconds ago        nifty_jang
e79c10c356a9   ubuntu:16.04  "/bin/bash"             8 minutes ago   Exited (0)    7 minutes ago        ecstatic_jennings
374fdc31a5df   ubuntu:16.04  "/bin/bash"             9 minutes ago   Exited (0)    9 minutes ago        musing_pascal
8fae4adec725   ubuntu:16.04  "/bin/echo 'Hello wo..." 11 minutes ago   Exited (0)    11 minutes ago        heuristic_aryabhata

C:\Users\Deanii\Documents\GitHub\ME8_Containerization_and_Docker\1-running_containers>
```

Removing containers (7)

```
Command Prompt

C:\Users\Deanii\Documents\GitHub\ME8_Containerization_and_Docker\1-running_containers>docker rm cbe
cbe

Command Prompt

C:\Users\Deanii\Documents\GitHub\ME8_Containerization_and_Docker\1-running_containers>docker ps -a -q
e79c10c356a9
374fdc31a5df
8fae4adec725

C:\Users\Deanii\Documents\GitHub\ME8_Containerization_and_Docker\1-running_containers>docker run --rm ubuntu:16.04 /bin/echo 'Hello and goodbye!'
'Hello and goodbye!'
```

```
Command Prompt

C:\Users\Deanii\Documents\GitHub\ME8_Containerization_and_Docker\1-running_containers>docker ps -a
CONTAINER ID   IMAGE      COMMAND                  CREATED        STATUS        PORTS        NAMES
e79c10c356a9   ubuntu:16.04  "/bin/bash"             13 minutes ago   Exited (0)    12 minutes ago        ecstatic_jennings
374fdc31a5df   ubuntu:16.04  "/bin/bash"             14 minutes ago   Exited (0)    14 minutes ago        musing_pascal
8fae4adec725   ubuntu:16.04  "/bin/echo 'Hello wo..." 16 minutes ago   Exited (0)    16 minutes ago        heuristic_aryabhata
```